

**Figure 2**

[illegible]

### Figure 3 - 1

Inventor: Wheeler, et al      Filed: 9/30/03  
USSN: Not yet assigned      Atty Dkt 66-00A

2251 CAGCTTGATAGCTCGACGGATCCCCAAAATGTGAGGTGTTCCGGGAGCTG  
2301 AAAGACTTGAAGGGCTACGGAGGTGTCAGTTTGCCTGAATGTGAGTTCCC  
2351 TGCTATTTTGCTTTGTCCATAATTCATCCTCTTCACTCTTTCCCTCCAT  
2401 TCTCTTCATCCTCTTTTCCCCCTCTACTTTTAATTATCAAACAATTCTCT  
2451 TATTTGTTTACTCTTTTATTACATTTATTTATCTGCCTCTCCTTTTTCCC  
2501 ATTGTCTGATCCTTTGGAACCTCTTTTACCTTAACAAGATACTCTGTGGT  
2551 CTGCCATATTTGGAGATTGGTTGGAGAGCCTTTTTCGGTCTGGGAATACA  
2601 GGTCTCATTTATGCTATACATGAACATCCTTGTGAAATCTCTTTTTTCGT  
2651 CTTTCTTTCAGGGGTCTGTACCGCGTTTCATACCAGTGGTTATGACACAC  
2701 AAGCCATAGTACAAAACAATGACAGCACAGAATATGGACTCTTCCAGATA  
2751 AATAATAAAATTTGGTGCAAAGACGACCAGAACCCTCACTCAAGCAACAT  
2801 CTGTAACATCTCCTGTGACAGTGAGTAACCTCTTTTTACTCTGTTCTGT  
2851 GTTTTTCTGAAACCTACTCCTGGGATAACCTCCTTTTTTTTTGGTGTGAAG  
2901 CACACCTCTGGCTTCACTGCCTTGGACTCCAAATTAACGTGGGACTTGA  
2951 TAATACCGAGTAAGAGGCTCTTAGAATTTTTTCATTAACACTAAATCCCCA  
3001 GACAGTTTCTTAAAGTTCCTGGGTAGGTGACCTGAGCTGTTTGGGGATCT  
3051 TGATGTATAATACCCTGTATTTTTCAGACTAAGTTGGTTGATGAAGTTGAT  
3101 AATTCCTAAGGAGCTGCCCCAGAGAAGAGAAGGGAGTCCTTACCTAGGGA  
3151 TAGGCATTACTGTATTAAATTTCTCACCAGAGGCAACAGGCATAAGCC  
3201 TCTAGTTCAGAGAAAACCAGAGAAGAGGGAAATTCATTATCCTTCTGGGT  
3251 AATACTTAGCTCTCTCATTTTTTCCACCAGAGGCTCCTGCCAGAGTTCCT  
3301 GGATGATGATCTTACTGATGACATTATGTGTGTCAAGAAGATTCTGGATA  
3351 AAGTAGGAATTAACACTGAGTGAGTCACCTCTCTATTTTTCACTTAATCT  
3401 TTCCTCTCTTCTTCTCAGTCCTTTTCGTCCCAGCACTATACTCCTTTCTC  
3451 TCTATTTCTTGGTCTTTTAAAGCTAGAATGTAATCTTAAAAACAAAATCA  
3501 TCAAGCAGACTCCGGTTTCCAATTTTGAAGCTTCACTTACTTCACTCCCG  
3551 TTAGCAATTTTCTACCTAAGGGTCCCTAATAGAGGGCTGAGATCCAGGA  
3601 TTTCTTCCACCAGGACTTGAACATCTAATTCTACTTGTTCACTCCTACAT  
3651 CCTAAGGCACGCCCTTTGACCACTGCCCCGCAATTTTCTTGGAGTTTTAA  
3701 AAAATGGACCTTACTCCACTAAGTGGCTCAGTGTCTCTAGCCATGTGGCT  
3751 AGGAAAGTCTGTCTGTAATTTTAAACCCACAGTCTTCCACCTCAGCCTTCC  
3801 TGGGGATAAAGCTAGATGTAAATCTAACCAAGATCCTGTCAGTAATTTGC  
3851 CTTGTCTCCTTCTTTCATGATCAGGTGGGCCATAAAGCACTCTGTTCTGA  
3901 GAAGCTGGATCAGTGGCTCTGTGAGAAGTTGTGAACACCTGCTGTCTTTG  
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4001 TCGTTTTGCTTCTTTGTACCCCTTGAAGCTAACTCGTCTCTGAGCCCTG  
4051 GGCCCTGTAGTGACAATGGACATGTAAGGACTAATCTCCAGGTGTGCATG  
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4301 AGGATAGAGAGGCTGAACCTATAACAACCTCAAAGATGGAGATTACTTTCT  
4351 GTATTAATTCAATTCAACAGAGTTTTATTGATCACCTAGCATAATTTAAA  
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4451 GCTGCTAAGTCACCTCAGTTGTGTCCGACTCTGTGTGACCCCATAGACGG  
4501 TAGCCCAAGGCTCCCATGTCCCTGGAATTC

Figure 3 - 2

Animals Expressing Exogenous IGF-1 in  
Their Milk

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1-1951	Bovine a-Lactalbumin 5' Flanking Region/Promoter Region
1952	Bovine a-Lactalbumin Transcription Start Point
1989-2045	Bovine a-Lactalbumin Signal Peptide Coding Region
2046-2255	Human/Bovine/Porcine IGF-I Coding Region
2256-2258	IGF-I Stop Codon
2259-2340	Cloning Sites and Bovine a-Lactalbumin 3' End of Exon 1
2341-2661	Bovine a-Lactalbumin Intron 1
2662-2820	Bovine a-Lactalbumin Exon 2
2821-3294	Bovine a-Lactalbumin Intron 2
3295-3369	Bovine a-Lactalbumin Exon 3
3370-3873	Bovine a-Lactalbumin Intron 3
3874-4203	Bovine a-Lactalbumin Exon 4
4204-4532	Bovine a-Lactalbumin 3' Flanking Region

**SEQ ID NO:2**

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101 GCAGTCGGAGGGCGCCCCAGACAGGCATCGTGGATGAGTGCTGCTTCCGG
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201 CAAGTCAGCT
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**Figure 3 - 3**

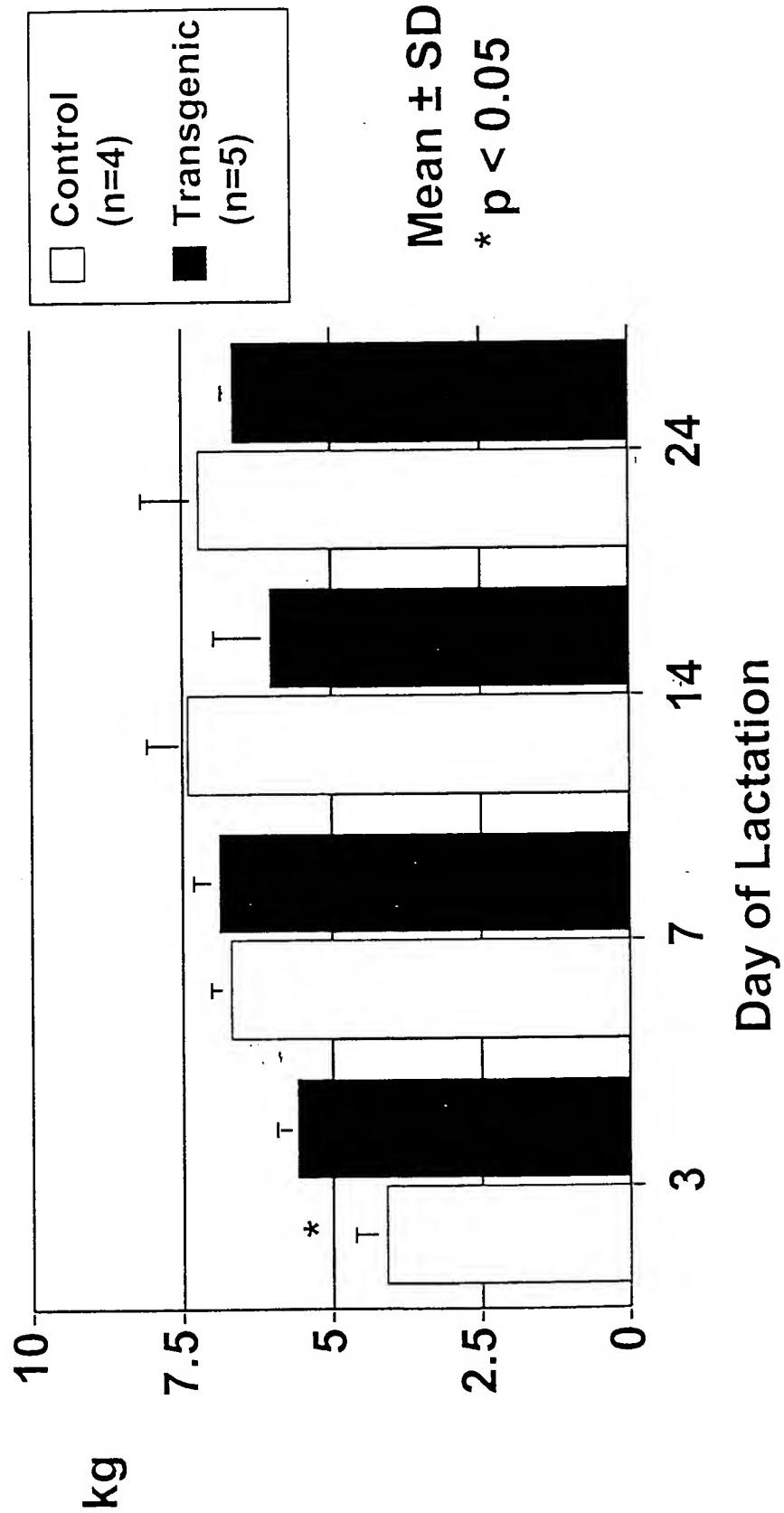
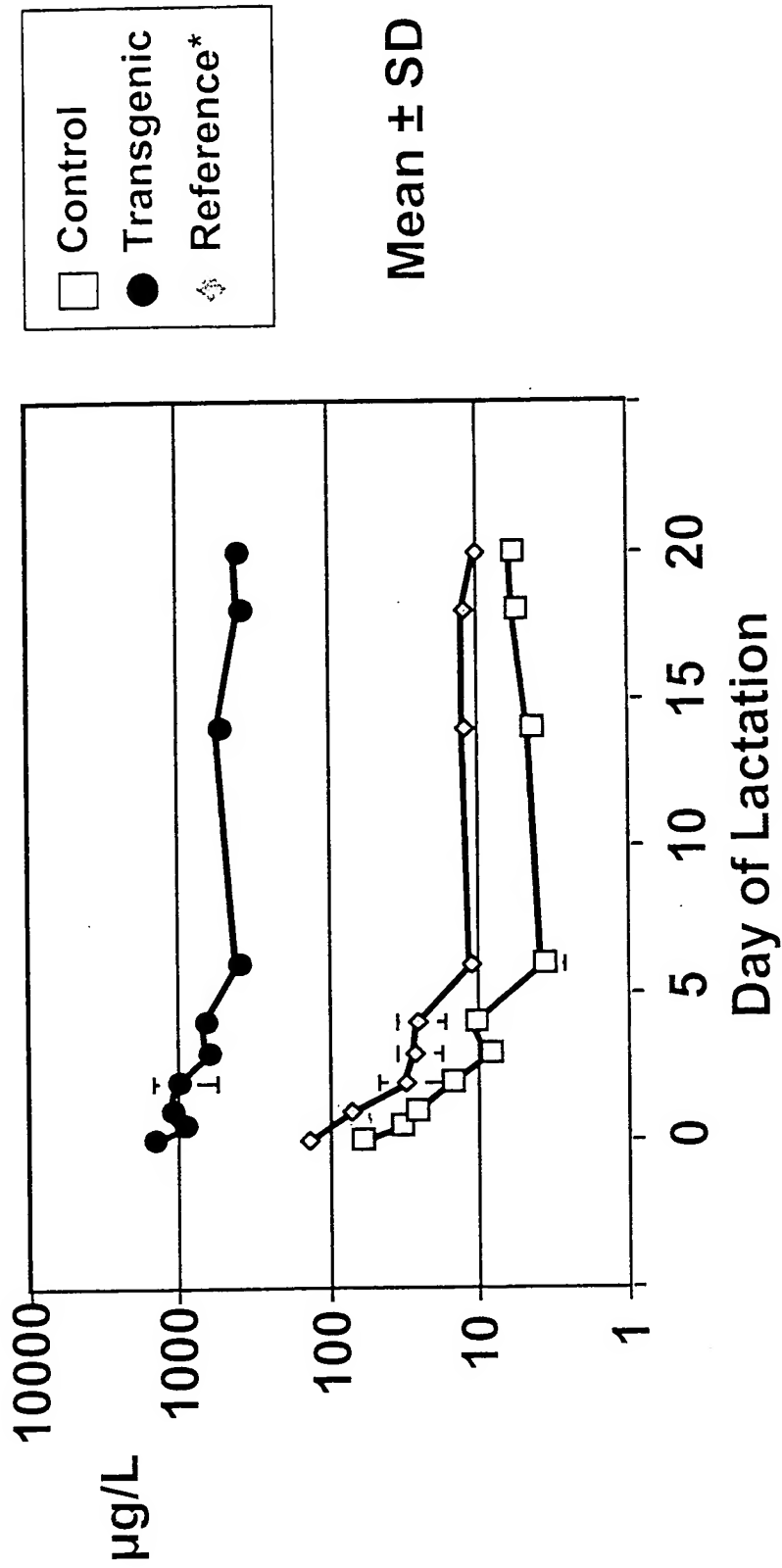


Figure 4



\* York-Duroc cross-bred sows (Donovan et al. *Pediatric Research* 1994; 36:159-163)

Figure 5

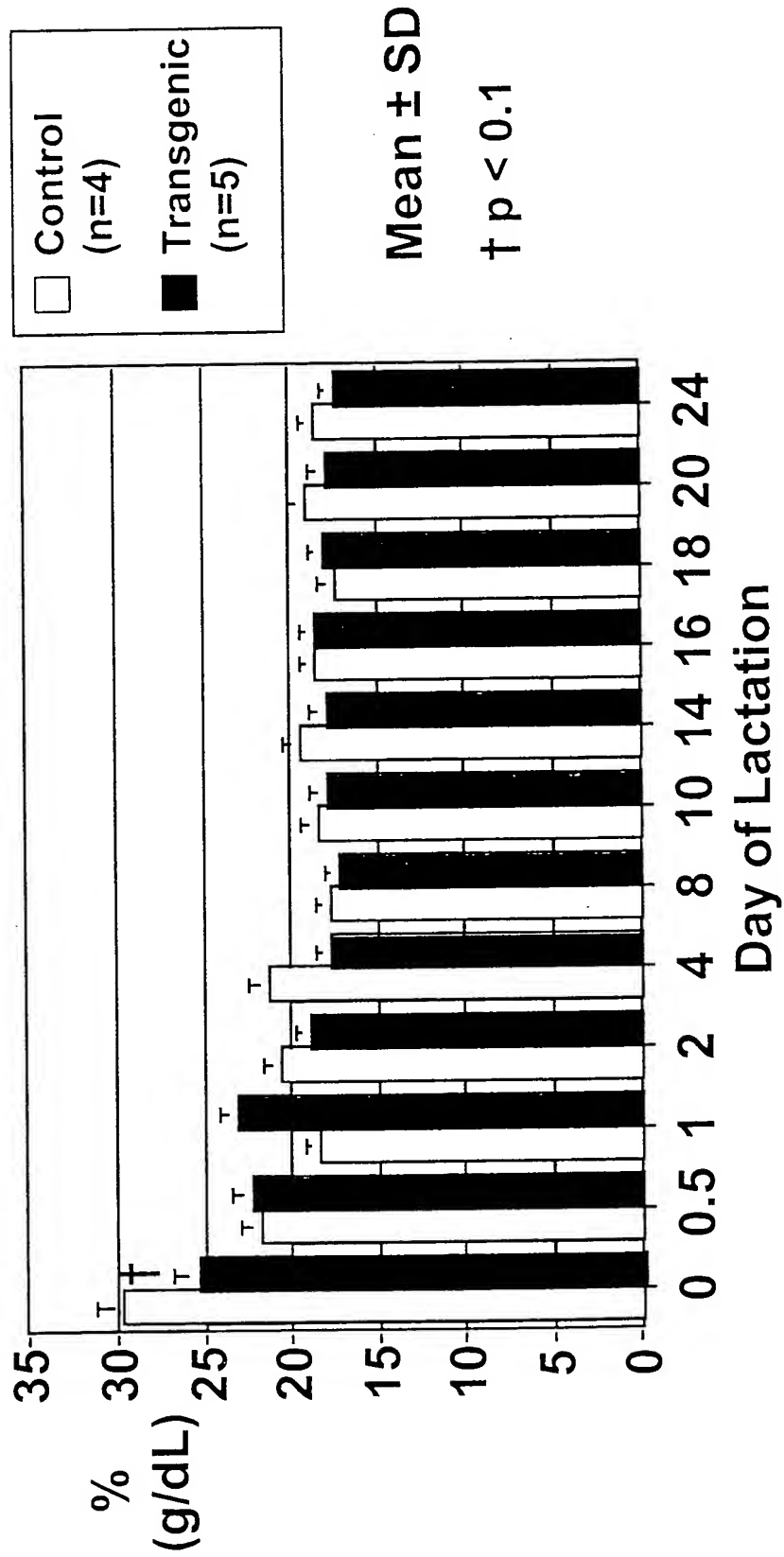


Figure 6



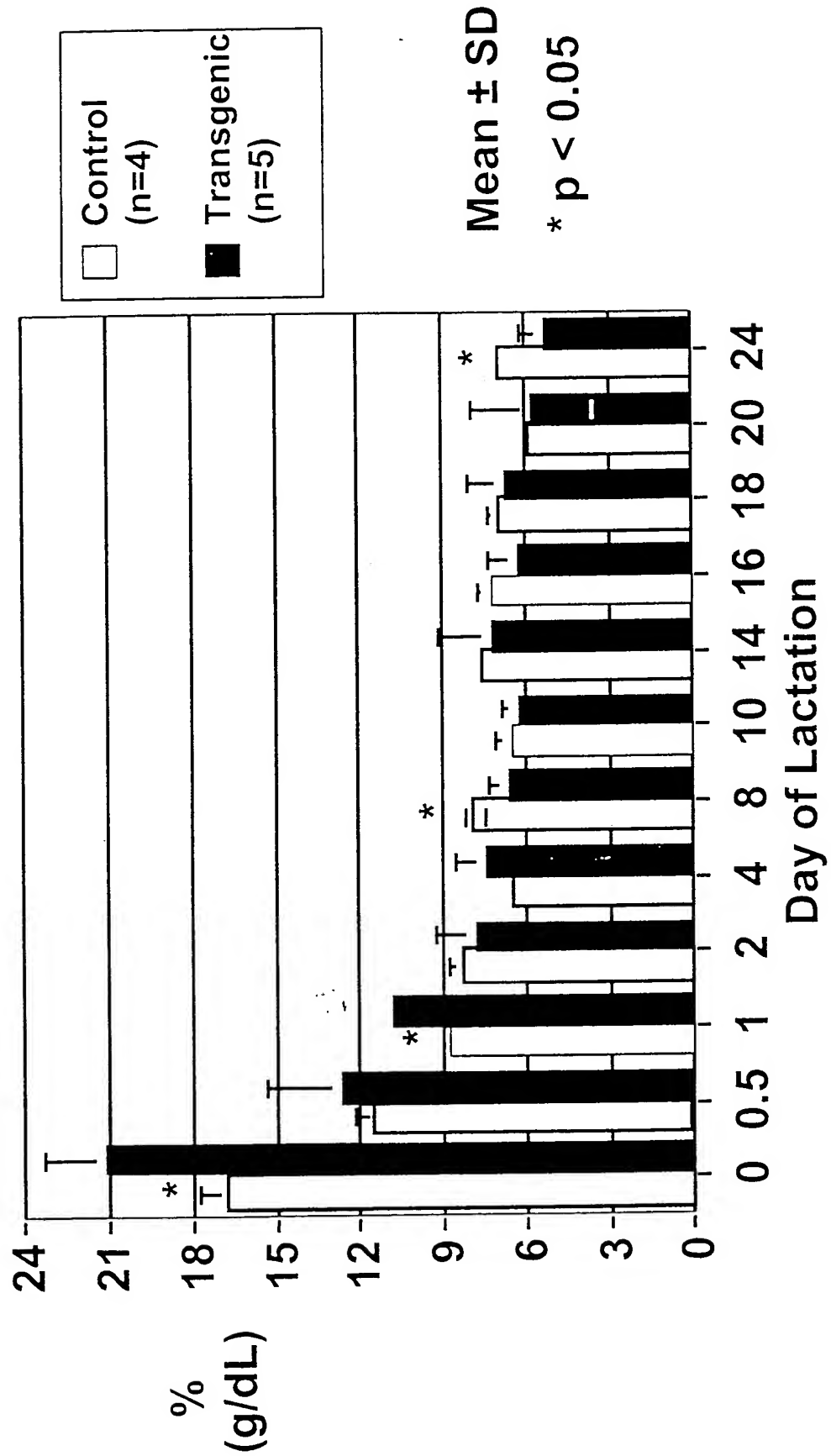


Figure 7

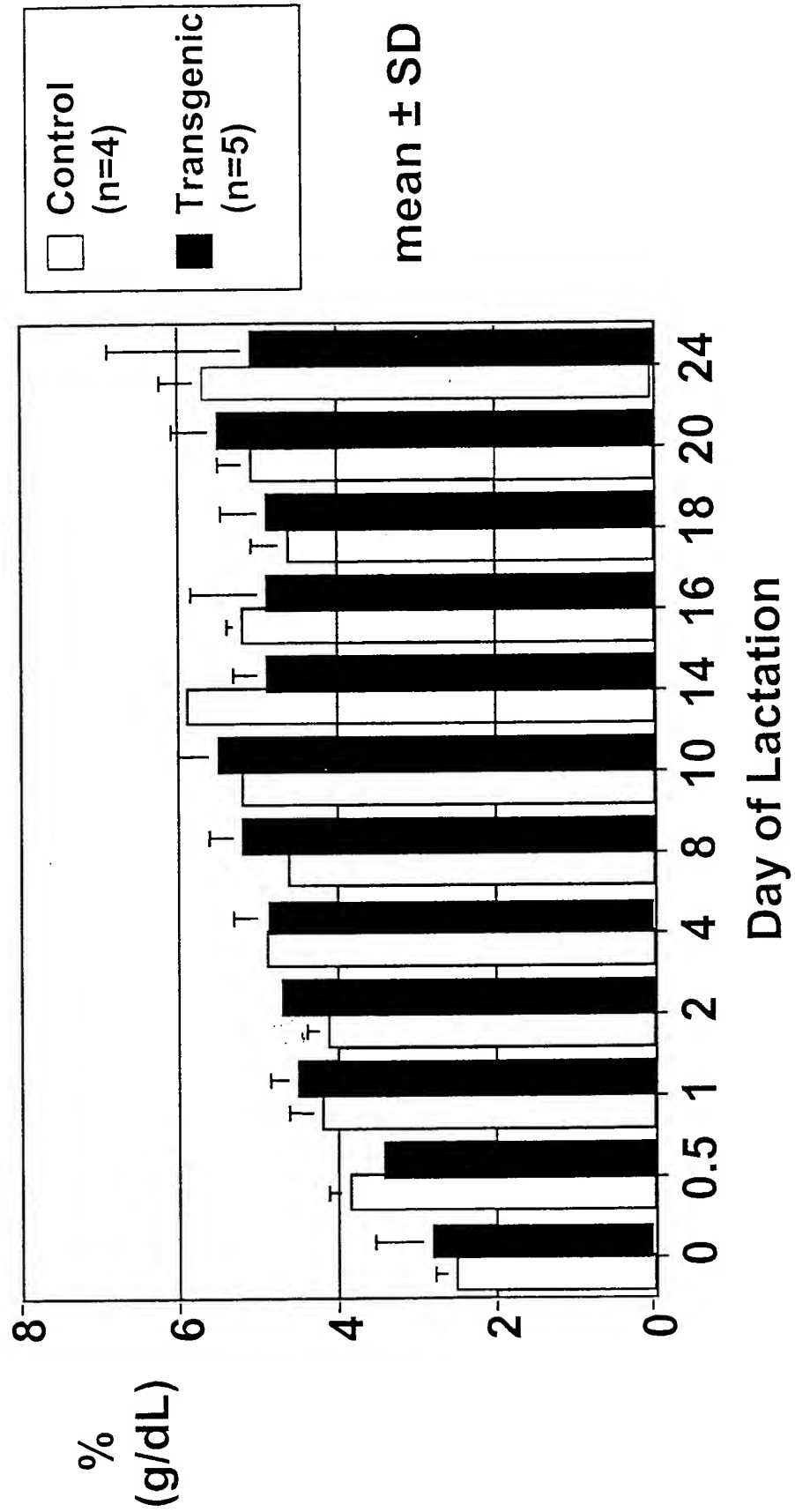


Figure 8

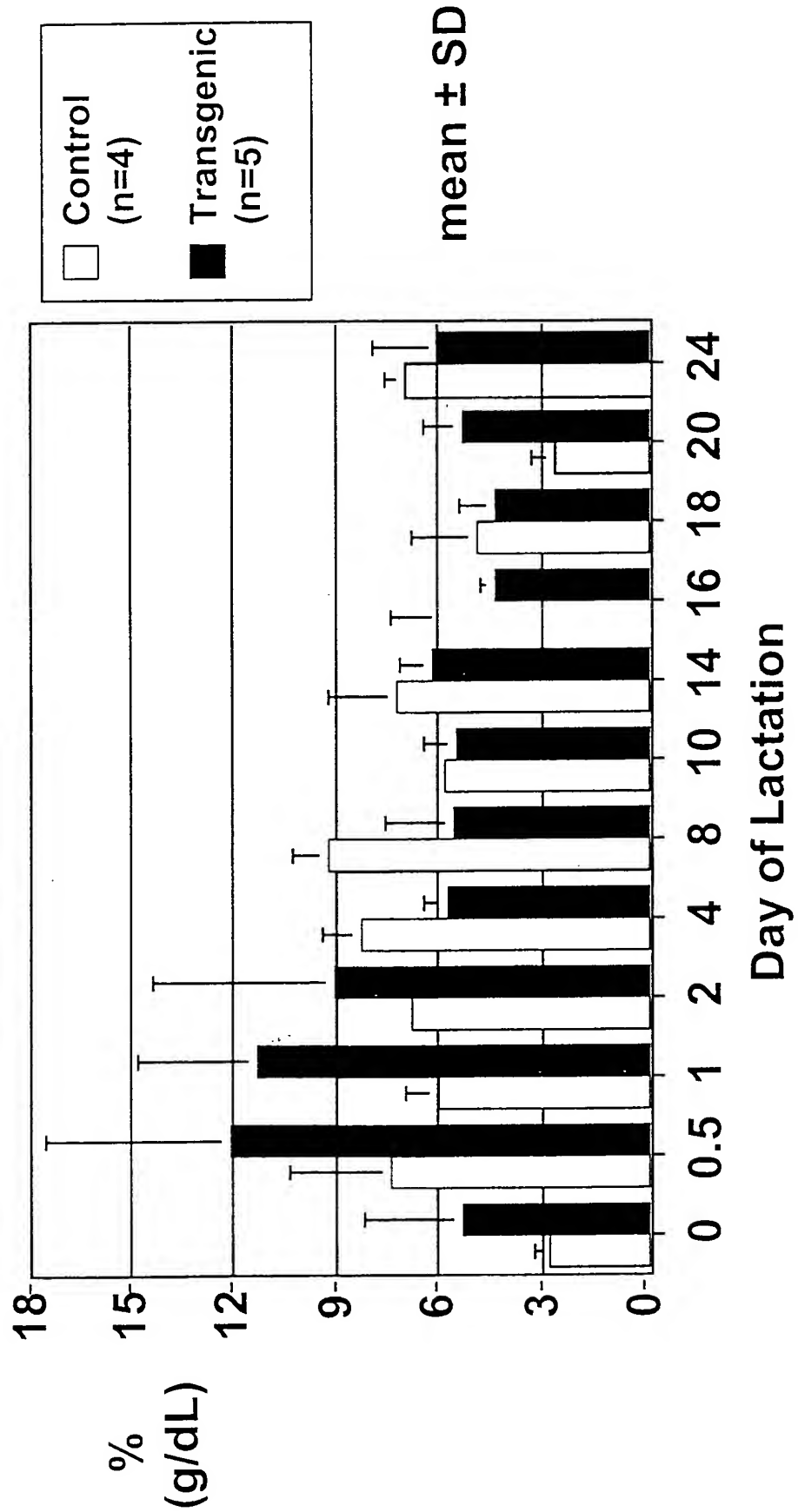
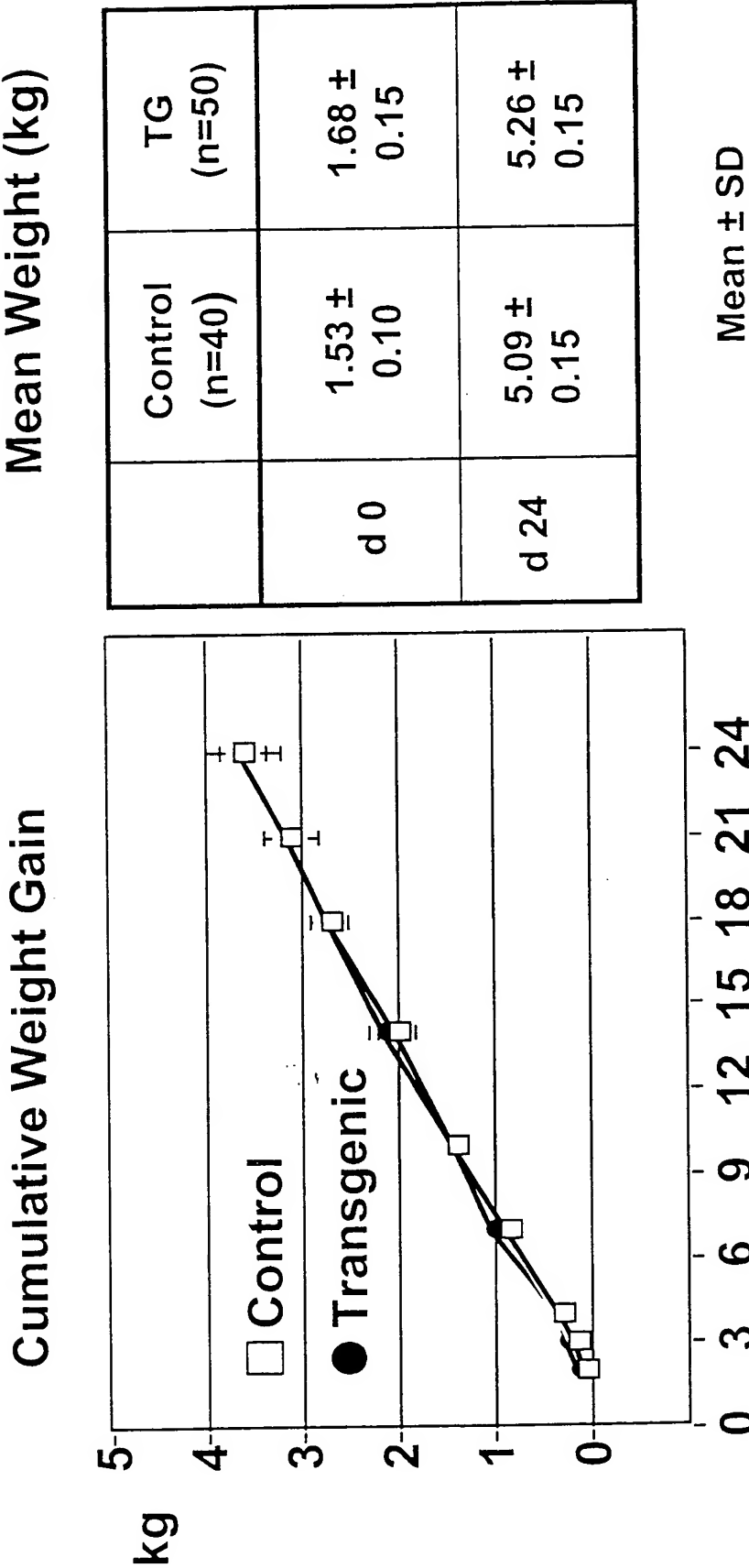


Figure 9



**Figure 10**

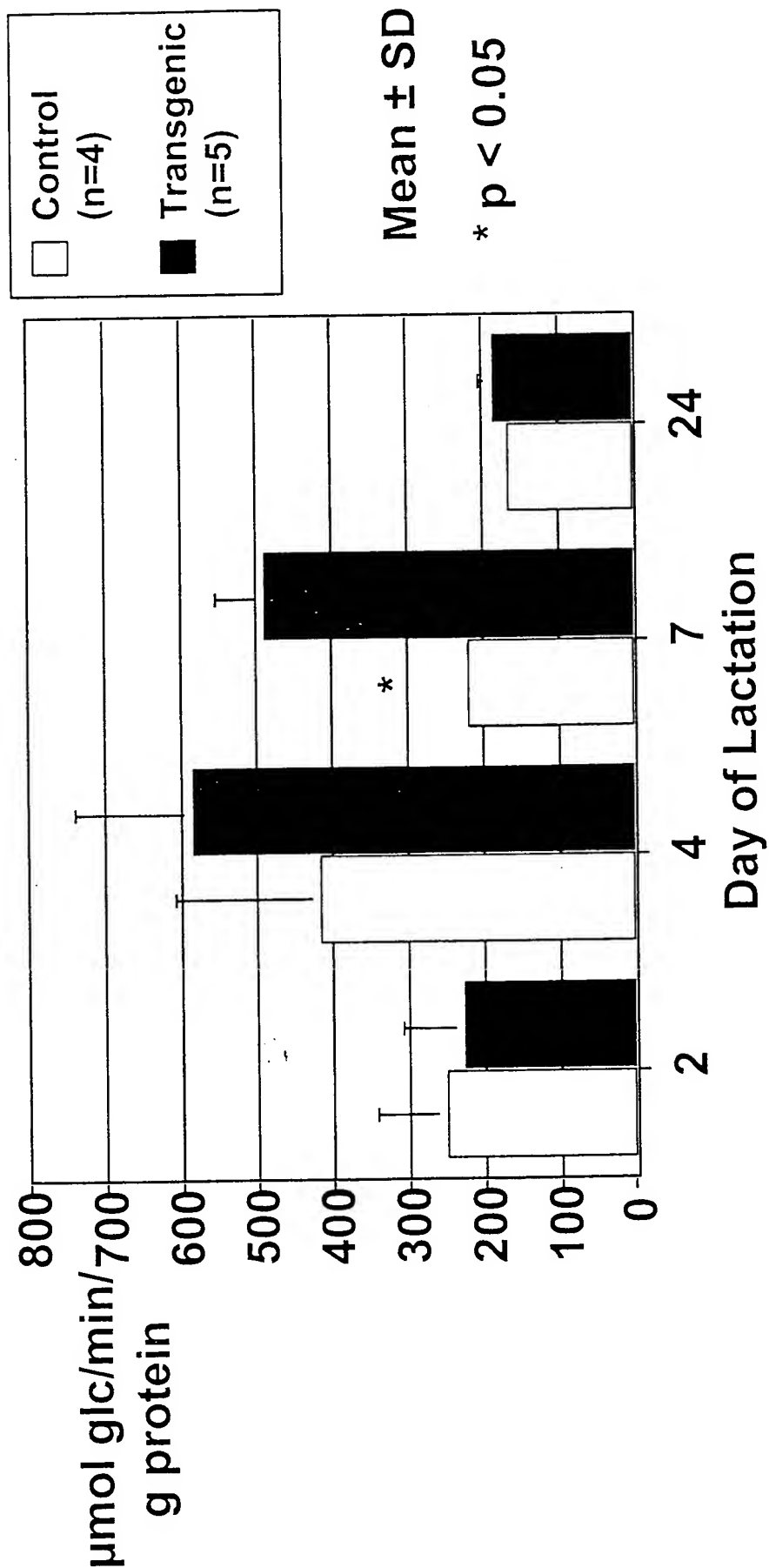


Figure 11